

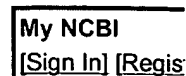
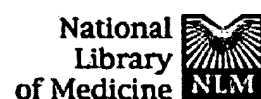
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<input type="checkbox"/>	L9	EP-1216054-A1.did.	0
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☐ 1: Vet J. 2005 Jul;170(1):14-23.

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- Vet J. 2005 Jul;170(1):6-7.

ELSEVIER
FULL-TEXT ARTICLE**Equine herpesviruses 1 (EHV-1) and 4 (EHV-4)--epidemiology, disease and immunoprophylaxis: a brief review.****Patel JR, Heldens J.**

Intervet UK Ltd., The Elms, Thicket Road, Houghton, Huntingdon, Cambridgeshire, PE28 2BQ, UK. jay.patel@intervet.com

This review concentrates on the epidemiology, latency and pathogenesis of, and the approaches taken to control infection of horses by equine herpesvirus types 1 (EHV-1) and 4 (EHV-4). Although both viruses may cause febrile rhinopneumonitis, EHV-1 is the main cause of abortions, paresis and neonatal foal deaths. The lesion central to these three conditions is necrotising vasculitis and thrombosis resulting from lytic infection of endothelial cells lining blood capillaries. The initiation of infection in these lesions is likely to be by reactivated EHV-1 from latently infected leukocytes. However, host factors responsible for reactivation remain poorly understood. While vaccine development against these important viruses of equines involving classical and modern approaches has been ongoing for over five decades, progress, compared to other alpha herpesviruses of veterinary importance affecting cattle and pigs, has been slow. However recent data with a live temperature sensitive EHV-1 vaccine show promise.

Publication Types:

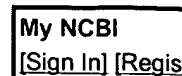
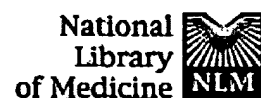
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 Equine herpesviruses 1 (EHV-1) and 4 (EHV-4)--epidemiology, disease and immunoprophylaxis: a brief review.
Vet J. 2005 Jul;170(1):14-23. Review.
PMID: 15993786 [PubMed - indexed for MEDLINE]
- ☐ 2: Patel JR, Foldi J, Bateman H, Williams J, Didlick S, Stark R. [Related Articles, Links](#)
 Equid herpesvirus (EHV-1) live vaccine strain C147: efficacy against respiratory diseases following EHV types 1 and 4 challenges.
Vet Microbiol. 2003 Mar 20;92(1-2):1-17.
PMID: 12488066 [PubMed - indexed for MEDLINE]
- ☐ 3: Taouji S, Collobert C, Gicquel B, Sailleau C, Brisseau N, Moussu C, Breuil MF, Pronost S, Borchers K, Zientara S. [Related Articles, Links](#)
 Detection and isolation of equine herpesviruses 1 and 4 from horses in Normandy: an autopsy study of tissue distribution in relation to vaccination status.
J Vet Med B Infect Dis Vet Public Health. 2002 Oct;49(8):394-9.
PMID: 12449249 [PubMed - indexed for MEDLINE]
- ☐ 4: Patel JR, Didlick S, Bateman H. [Related Articles, Links](#)
 Efficacy of a live equine herpesvirus-1 (EHV-1) strain C147 vaccine in foals with maternally-derived antibody: protection against EHV-1 infection.
Equine Vet J. 2004 Jul;36(5):447-51.
PMID: 15253088 [PubMed - indexed for MEDLINE]
- ☐ 5: Ruitenberg KM, Love DN, Gilkerson JR, Wellington JE, Whalley JM. [Related Articles, Links](#)
 Equine herpesvirus 1 (EHV-1) glycoprotein D DNA inoculation in horses with pre-existing EHV-1/EHV-4 antibody.
Vet Microbiol. 2000 Sep 25;76(2):117-27.
PMID: 10946142 [PubMed - indexed for MEDLINE]
- ☐ 6: Burki F, Rossmanith W, Nowotny N, Pallan C, Mostl K, Lussy H. [Related Articles, Links](#)
 Viraemia and abortions are not prevented by two commercial equine herpesvirus-1 vaccines after experimental challenge of horses.
Vet Q. 1990 Apr;12(2):80-6.
PMID: 2163560 [PubMed - indexed for MEDLINE]
- Foote CE, Love DN, Gilkerson JR, Whalley JM. [Related Articles, Links](#)

☐ 7:


 Serological responses of mares and weanlings following vaccination with an inactivated whole virus equine herpesvirus 1 and equine herpesvirus 4 vaccine.

Vet Microbiol. 2002 Aug 2;88(1):13-25.

PMID: 12119135 [PubMed - indexed for MEDLINE]

☐ 8: [Frymus T, Kita J, Woyciechowska S, Ganowicz M.](#)

[Related Articles](#), [Links](#)


 Foetal and neonatal foal losses on equine herpesvirus type 1(EHV-1) infected farms before and after EHV-1 vaccination was introduced.

Pol Arch Weter. 1986;26(3-4):7-14.

PMID: 2830601 [PubMed - indexed for MEDLINE]

☐ 9: [Heldens JG, Hannant D, Cullinane AA, Prendergast MJ, Mumford JA, Nelly M, Kydd JH, Weststrate MW, van den Hoven R.](#)

[Related Articles](#), [Links](#)


 Clinical and virological evaluation of the efficacy of an inactivated EHV1 and EHV4 whole virus vaccine (Duvaxyn EHV1,4). Vaccination/challenge experiments in foals and pregnant mares.

Vaccine. 2001 Jul 20;19(30):4307-17.

PMID: 11457558 [PubMed - indexed for MEDLINE]

☐ 10: [Patel JR, Bateman H, Williams J, Didlick S.](#)

[Related Articles](#), [Links](#)


 Derivation and characterisation of a live equid herpes virus-1 (EHV-1) vaccine to protect against abortion and respiratory disease due to EHV-1.

Vet Microbiol. 2003 Jan 2;91(1):23-39.

PMID: 12441229 [PubMed - indexed for MEDLINE]

☐ 11: [Studdert MJ.](#)

[Related Articles](#), [Links](#)


 Vaccination of foals and pregnant mares with Duvaxyn EHV1, 4 vaccine.

Vaccine. 2002 Jan 15;20(7-8):992. No abstract available.

PMID: 11803056 [PubMed - indexed for MEDLINE]

☐ 12: [Heldens JG, Kersten AJ, Weststrate MW, van den Hoven R.](#)

[Related Articles](#), [Links](#)

 Duration of immunity induced by an adjuvanted and inactivated equine influenza, tetanus and equine herpesvirus 1 and 4 combination vaccine.

Vet Q. 2001 Nov;23(4):210-7.

PMID: 11765243 [PubMed - indexed for MEDLINE]

☐ 13: [Ostlund EN.](#)

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 The equine herpesviruses.

Vet Clin North Am Equine Pract. 1993 Aug;9(2):283-94. Review.

PMID: 8395324 [PubMed - indexed for MEDLINE]

☐ 14: [Bryans JT, Allen GP.](#)

[Related Articles](#), [Links](#)


 Application of a chemically inactivated, adjuvanted vaccine to control abortigenic infection of mares by equine herpesvirus I.

Dev Biol Stand. 1982;52:493-8.

PMID: 6299858 [PubMed - indexed for MEDLINE]

☐ 15: [Chvala S, Nowotny N, Kotzab E, Cain M, van den Hoven R.](#)

[Related Articles](#), [Links](#)

 Use of the meridian test for the detection of equine herpesvirus type 1 infection in horses with decreased performance.

J Am Vet Med Assoc. 2004 Aug 15;225(4):554-9.

PMID: 15344363 [PubMed - indexed for MEDLINE]

☐ **16:** [Gilkerson JR, Love DN, Whalley JM.](#)

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Epidemiology of equine herpesvirus abortion: searching for clues to the future.

Aust Vet J. 1998 Oct;76(10):675-6. Review. No abstract available.

PMID: 9830567 [PubMed - indexed for MEDLINE]

☐ **17:** [Reed SM, Toribio RE.](#)

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Equine herpesvirus 1 and 4.

Vet Clin North Am Equine Pract. 2004 Dec;20(3):631-42. Review.

PMID: 15519823 [PubMed - indexed for MEDLINE]

☐ **18:** [Breathnach CC, Yeargan MR, Sheoran AS, Allen GP.](#)

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The mucosal humoral immune response of the horse to infective challenge and vaccination with equine herpesvirus-1 antigens.

Equine Vet J. 2001 Nov;33(7):651-7.

PMID: 11770985 [PubMed - indexed for MEDLINE]

☐ **19:** [Heldens JG, Pouwels HG, van Loon AA.](#)

[Related Articles, Links](#)



Efficacy and duration of immunity of a combined equine influenza and equine herpesvirus vaccine against challenge with an American-like equine influenza virus (A/equi-2/Kentucky/95).

Vet J. 2004 Mar;167(2):150-7.

PMID: 14975389 [PubMed - indexed for MEDLINE]

☐ **20:** [Yasunaga S, Maeda K, Matsumura T, Kondo T, Kai K.](#)

[Related Articles, Links](#)



Application of a type-specific enzyme-linked immunosorbent assay for equine herpesvirus types 1 and 4 (EHV-1 and -4) to horse populations inoculated with inactivated EHV-1 vaccine.

J Vet Med Sci. 2000 Jul;62(7):687-91.

PMID: 10945284 [PubMed - indexed for MEDLINE]

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☐ 1. Document ID: US 6803041 B2

L1: Entry 1 of 26

File: USPT

Oct 12, 2004

US-PAT-NO: 6803041

DOCUMENT-IDENTIFIER: US 6803041 B2

**** See image for Certificate of Correction ****

TITLE: Equine herpesvirus vaccine

DATE-ISSUED: October 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mellencamp; Mark W.	St. Joseph	MO		

US-CL-CURRENT: [424/229.1](#); [424/202.1](#), [424/204.1](#), [424/205.1](#), [424/206.1](#), [424/278.1](#),
[424/280.1](#), [435/173.3](#), [435/235.1](#), [435/236](#), [435/237](#), [435/238](#)

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☐ 2. Document ID: US 6706515 B2

L1: Entry 2 of 26

File: USPT

Mar 16, 2004

US-PAT-NO: 6706515

DOCUMENT-IDENTIFIER: US 6706515 B2

TITLE: EHV-1 vectors

DATE-ISSUED: March 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Markham; Alexander Fred	Leeds LS9 7TF			GB
Meredith; David Mark	Leeds LS9 7TF			GB

US-CL-CURRENT: [435/235.1](#); [435/236](#), [435/320.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 6703231 B2

L1: Entry 3 of 26

File: USPT

Mar 9, 2004

US-PAT-NO: 6703231

DOCUMENT-IDENTIFIER: US 6703231 B2

TITLE: gM-negative EHV-mutants

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elbers; Knut	Gau-Algesheim			DE
Osterrieder; Nikolaus	Wampen			DE
Seyboldt; Christian	Hannover			DE

US-CL-CURRENT: 435/235.1; 424/184.1, 424/204.1, 424/229.1, 435/5, 435/6, 435/7.1,
530/300, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6395283 B1

L1: Entry 4 of 26

File: USPT

May 28, 2002

US-PAT-NO: 6395283

DOCUMENT-IDENTIFIER: US 6395283 B1

TITLE: Equine herpesvirus type 1 glycoprotein D (EHV-1gD)

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Paoletti; Enzo	Delmar	NY		

US-CL-CURRENT: 424/229.1; 424/138.1, 424/204.1, 435/69.1, 435/91.1, 514/44,
530/300, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6387685 B1

L1: Entry 5 of 26

File: USPT

May 14, 2002

US-PAT-NO: 6387685

DOCUMENT-IDENTIFIER: US 6387685 B1

TITLE: EHV-1 vectors

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Markham; Alexander Fred	Leeds			GB
Meredith; David Mark	Leeds			GB

US-CL-CURRENT: 435/235.1; 435/236, 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6207166 B1

L1: Entry 6 of 26

File: USPT

Mar 27, 2001

US-PAT-NO: 6207166

DOCUMENT-IDENTIFIER: US 6207166 B1

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TITLE: Polynucleotide formulation against pathologies of the horse

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Audonnet; Jean-Christophe	Lyons			FR
Bouchardon; Annabelle	Lyons			FR
Riviere; Michel	Ecully			FR

US-CL-CURRENT: 424/199.1; 424/202.1, 424/204.1, 424/209.1, 435/320.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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L1: Entry 7 of 26

File: USPT

Jul 4, 2000

US-PAT-NO: 6083511

DOCUMENT-IDENTIFIER: US 6083511 A

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TITLE: EHV-4 gH or gC glycoprotein polypeptides and methods of use

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Onions; David Edward	Glasgow			GB
Nicolson; Lesley	Glasgow			GB

US-CL-CURRENT: [424/229.1](#); [424/184.1](#), [424/185.1](#), [530/350](#), [530/395](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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L1: Entry 8 of 26

File: USPT

Feb 15, 2000

US-PAT-NO: 6025181

DOCUMENT-IDENTIFIER: US 6025181 A

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TITLE: Equine herpesvirus-4TK mutant

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Onions; David Edward	Glasgow			GB
Nicolson; Lesley	Glasgow			GB

US-CL-CURRENT: [435/235.1](#); [424/199.1](#), [424/205.1](#), [424/229.1](#), [424/820](#), [435/320.1](#),
[435/325](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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File: USPT

Oct 26, 1999

US-PAT-NO: 5972666

DOCUMENT-IDENTIFIER: US 5972666 A

TITLE: Assembly-deficient herpesvirus vaccine

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hippenmeyer; Paul J	St. Louis	MO		
Rankin; Anne M	Ballwin	MO		
Luckow; Verne A	Chesterfield	MO		

US-CL-CURRENT: [424/205.1](#); [424/229.1](#), [424/230.1](#), [424/231.1](#), [424/93.2](#), [435/236](#),
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☐ 10. Document ID: US 5922327 A

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File: USPT

Jul 13, 1999

US-PAT-NO: 5922327

DOCUMENT-IDENTIFIER: US 5922327 A

TITLE: Equine herpes virus glycoproteins

DATE-ISSUED: July 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crabb; Brendan Scott	Ascot Vale			AU
Studdert; Michael Justin	Balwyn			AU

US-CL-CURRENT: 424/229.1; 435/69.3, 435/975, 436/94, 514/44, 530/350, 536/23.72

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